

Power Factor Correction Choke **multicomp**PRO

**RoHS
Compliant**



Features

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- High current output chokes, up to 28.1 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.

Specification

Inductance Range	: 100uH to 1000uH.
Foot Print	: 40mm × 20mm max., 46 max. Height.
Surge Voltage	: 400V DC.
Operating Temperature Range	: -55°C to + 130°C.

Electrical Characteristics

Part Number	OCL ¹ (uH) ±10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	I _{rms} ³ (A) @25°C
MPFC404620B-101K	100	20	14.7	75.4	19.3	64.7	28.1	44.8	14.7
MPFC404620B-201K	200	36.5	10.5	145.8	13.8	125	20.2	86.6	10.7
MPFC404620B-251K	250	46.5	9.4	183.8	12.3	157.6	18	109.1	9.4
MPFC404620B-351K	350	62.5	7.9	259.3	10.4	222.3	15.1	153.9	8.1
MPFC404620B-471K	470	96	6.8	347.6	8.9	298.1	13.1	206.4	6.3
MPFC404620B-561K	560	106	6.2	413.7	8.2	354.8	12	245.6	6
MPFC404620B-691K	690	143	5.6	504.4	7.4	432.5	10.8	299.5	5.1
MPFC404620B-821K	820	198	5.2	604.1	6.8	518	9.9	358.7	4.3
MPFC404620B-102K	1000	279	4.7	735.5	6.1	630.7	9	436.7	3.6

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL (Ta=25°C).
3. I_{rms}: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25°C).

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Mechanical dimensions

Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ± 0.5	Dim. E (mm) ± 0.5	Dim. E1 (mm) ± 0.5	Dim. E2 (mm) ± 0.5	Dim. F (mm) ± 0.1	Dim. H (mm) Ref.	Fig.
MPFC404620B-101K	40	19	43.5	5	12.5	/	/	$\Phi 1.6$	$\Phi 2.1$	1
MPFC404620B-201K	39.5	18.5	43					$\Phi 1.4$	$\Phi 1.9$	
MPFC404620B-251K	39.5	18.5	43					$\Phi 1.3$	$\Phi 1.8$	
MPFC404620B-351K	39	20	46	5	/	15	15	$\Phi 1$	$\Phi 1.5$	2
MPFC404620B-471K	39	20	46							
MPFC404620B-561K	38.5	19.5	45.5							
MPFC404620B-691K	38.5	19.5	45.5							
MPFC404620B-821K	38	19.5	45							
MPFC404620B-102K	38	19.5	45							

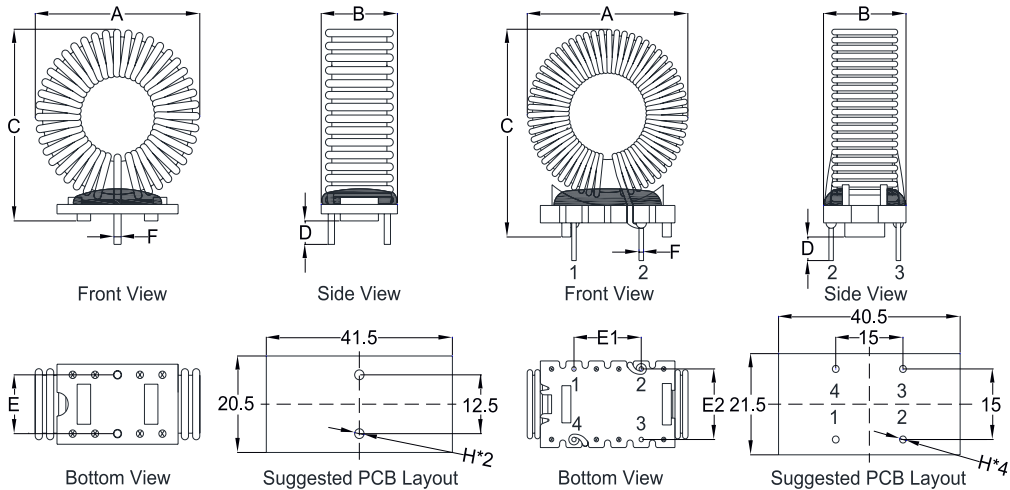


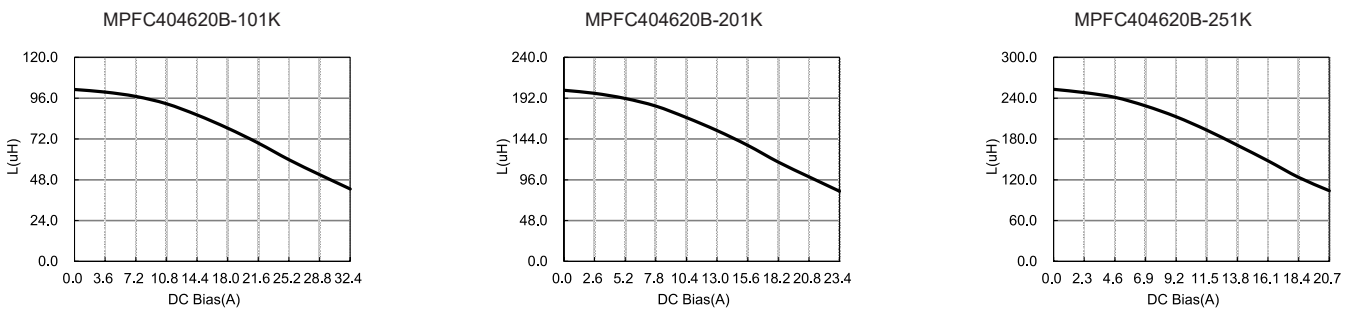
Fig. 1

Fig. 2

Dimensions : Millimetres

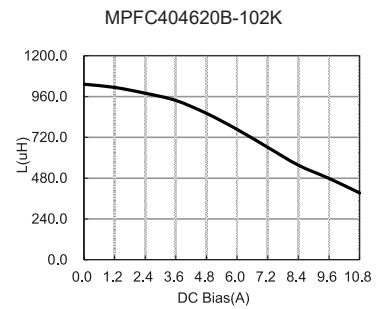
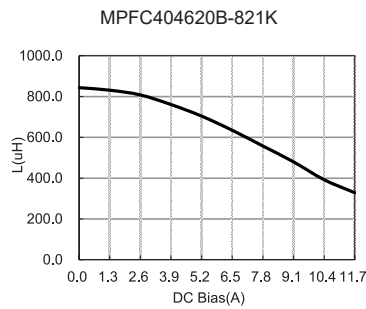
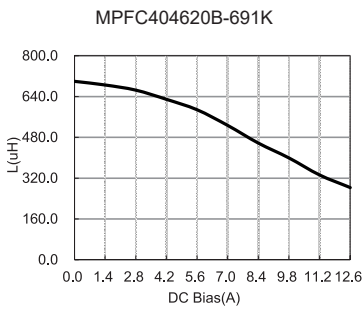
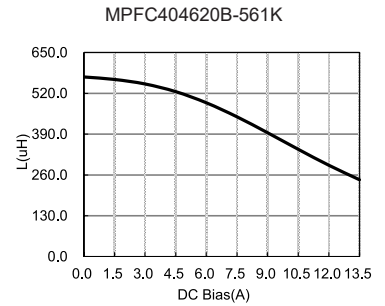
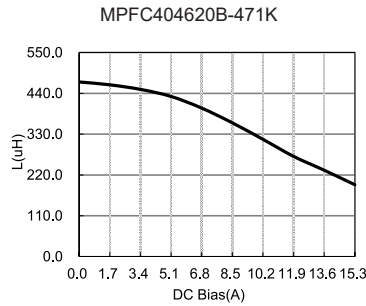
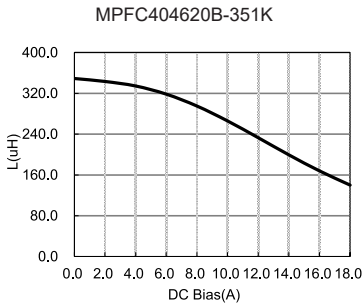
Note: PIN1 & PIN3 provided for mounting stability only.

Inductance vs. Current Characteristics



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Part Number Table

Description	Part Number
Power Factor Correction Choke, Foot height 40mm × 20mm, 100uH	MPFC404620B-101K
Power Factor Correction Choke, Foot height 40mm × 20mm, 200uH	MPFC404620B-201K
Power Factor Correction Choke, Foot height 40mm × 20mm, 250uH	MPFC404620B-251K
Power Factor Correction Choke, Foot height 40mm × 20mm, 350uH	MPFC404620B-351K
Power Factor Correction Choke, Foot height 40mm × 20mm, 470uH	MPFC404620B-471K
Power Factor Correction Choke, Foot height 40mm × 20mm, 560uH	MPFC404620B-561K
Power Factor Correction Choke, Foot height 40mm × 20mm, 690uH	MPFC404620B-691K
Power Factor Correction Choke, Foot height 40mm × 20mm, 821uH	MPFC404620B-821K
Power Factor Correction Choke, Foot height 40mm × 20mm, 1000uH	MPFC404620B-102K

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